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Title: **JP63308080A2: INDUCTION HEATING BONDING PROCESS AND COMPOSITE ADHESIVE AND INDUCTION HEATING BONDING APPARATUS THEREFOR**

Country: **JP Japan**  
Kind: **A**

Inventor(s): **MIYAMOTO MICHIE**

Applicant/Assignee: **MIYAMOTO MICHIE**  
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Issued/Filed Dates: **Dec. 15, 1988 / Jan. 25, 1988**

Application Number: **JP1988000015216**

IPC Class: **C09J 5/00; B29C 65/04;**

Priority Number(s): **Jan. 26, 1987 JP1987000016790**

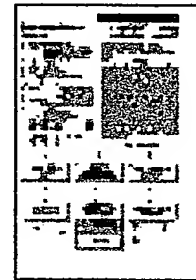
Abstract:



**Purpose:** To enable quick and easy bonding of parts without heating unnecessary parts, by passing a magnetic field energy through the bonding face between bonding objects and converting the magnetic energy into heat generated by eddy current loss, thereby melting and vulcanizing the resin at the surface of the bonding objects, accelerating the reaction and evaporating the solvent.

**Constitution:** A part A to be bonded (e.g. carpet face material) 4 and a part B (e.g. carpet backing) 5 are supplied through respective feeding rolls 10, 12 and an electrically conductive heat-generation material 1 is supplied with a feeding roll 11 between the parts 4 and 5. The sheets are laminated with tension rolls 13, 14 and a high-frequency current is passed through an electromagnetic induction-heating coil 3 to generate magnetic field. The magnetic field energy passed through the parts is converted to heat generated by eddy current loss by an dielectric heat-generation material 1 to effect the melting, vulcanization, acceleration of reaction and evaporation of solvent in the resin on the surface of the bonding object to obtain adhesive surfaces. The adhesive parts are bonded with each other and wound with a winding rill 15 to obtain a composite product composed of the parts A and B bonded with each other.

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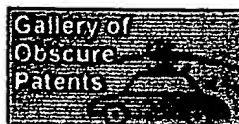
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Family: [Show known family members](#)

Other Abstract Info: DERABS C89-035369 DERC89-035369

Foreign References: No patents reference this one



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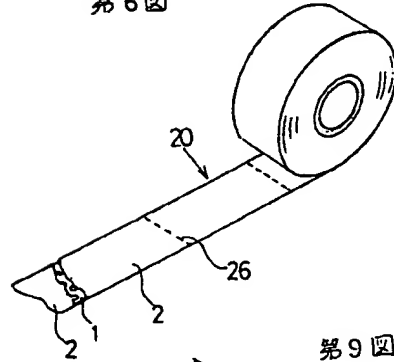
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- |              |                |     |
|--------------|----------------|-----|
| (5) 裏打ち材シート  | (10)(11)(12) 供 | ロール |
| (15) 巻き取りロール | (17) 貫通穴       |     |
| (18) 押圧ロール   | (20) 誘導加熱型接着剤  |     |
| (32) 給電部     | (34) 出力調整部     |     |
| (35) 検知部     | (36) 演算制御部     |     |

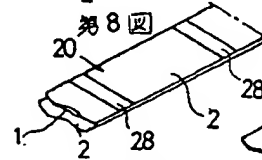
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出願人 宮本倫枝

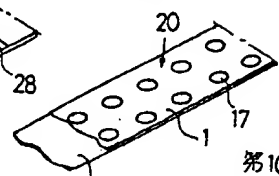
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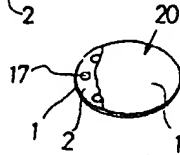
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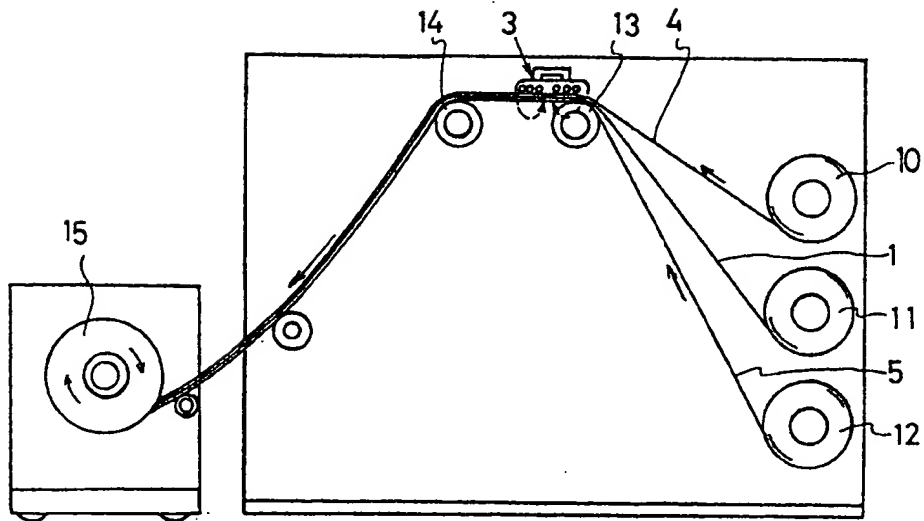
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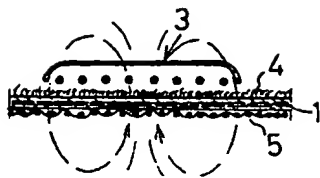
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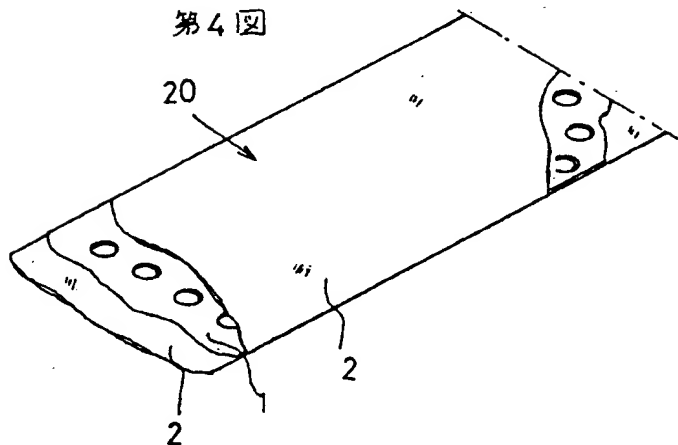
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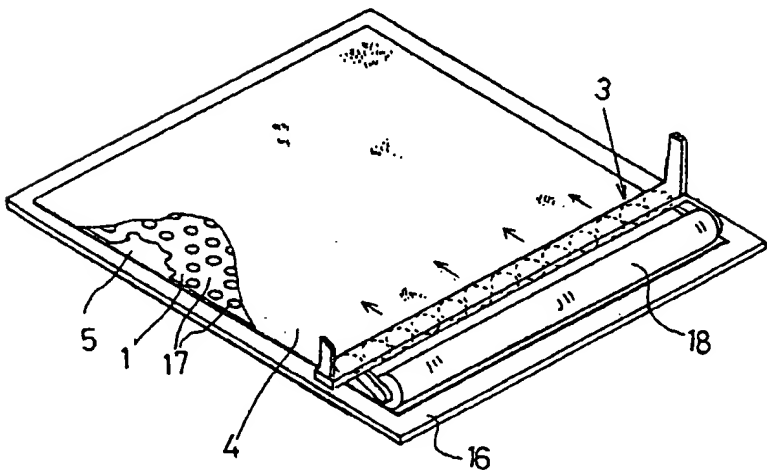
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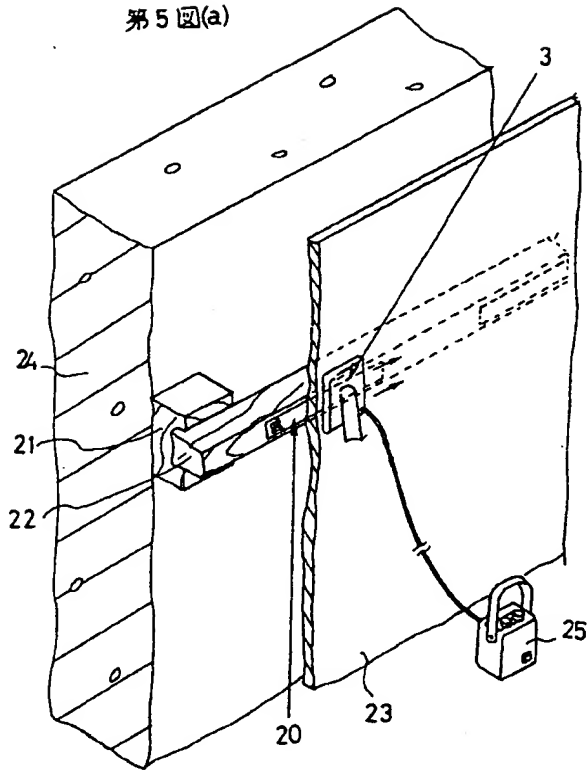
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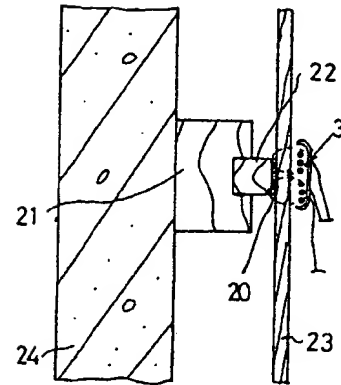
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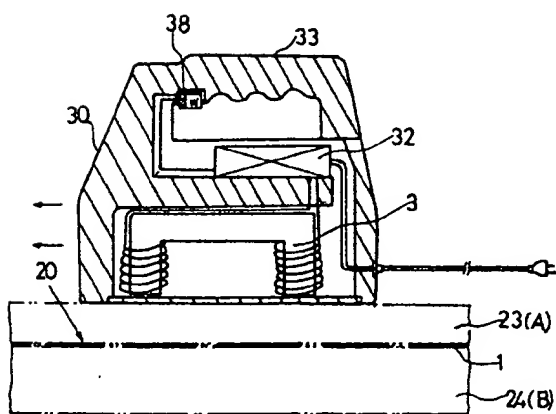
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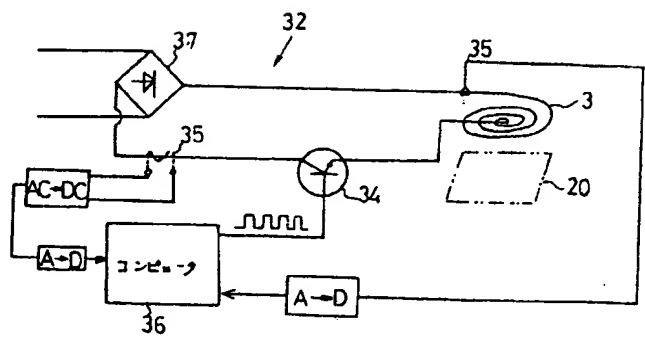
第5図(b)



第11図



第12図



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